

## Patent Claims

1. A grate element (1) for a grate of a waste-incineration plant, having a plurality of fixed or  
5 moveable rows of grate blocks arranged one behind the other, in each case one fixed row of grate blocks being followed by at least one moveable row of grate blocks, and a plurality of grate blocks (67) being arranged in each row of grate blocks, characterized in that a first  
10 number of grate blocks arranged in a moveable row of grate blocks is assigned to a first grate carriage (5), and a second number of grate blocks arranged in the moveable row of grate blocks is assigned to a second grate carriage (35), it being possible for the first  
15 number of grate blocks to be moved independently of the second number of grate blocks.

2. The grate element as claimed in claim 1, characterized in that each fixed row of grate blocks is  
20 followed by a moveable row of grate blocks.

3. The grate element as claimed in claim 1 or 2, characterized in that the first grate carriage (5) and the second grate carriage (35) have interacting guide  
25 elements (23, 41).

4. The grate element as claimed in one of the preceding claims, characterized in that the first grate carriage (5) and the second grate carriage (35) have  
30 drive arrangements (25) which are independent of one another.

5. The grate element as claimed in one of claims 1 to 3, characterized in that the first grate carriage (5)  
35 and the second grate carriage (35) have mechanically coupled, oppositely directed drive arrangements (25).

6. The grate element as claimed in one of the preceding claims, characterized in that the first grate

carriage (5) has two drive arrangements (25) and the second grate carriage (35) has one drive arrangement (43).

- 5    7.    The grate element as claimed in one of the preceding claims, characterized in that the first grate carriage (5) and the second grate carriage (35) are moved cyclically in phase.
- 10   8.    The grate element as claimed in one of claims 1 to 6, characterized in that the first grate carriage (5) and the second grate carriage (35) are moved cyclically in counter-phase.
- 15   9.    The grate element (1) as claimed in one of the preceding claims, characterized in that groups of grate blocks of the same row of grate blocks are assigned in an alternating manner to the first grate carriage (5) and the second grate carriage (35).
- 20   10.   The grate element (1) as claimed in one of the preceding claims, characterized in that at least some of the moveable grate blocks arranged in a line in the transporting direction are assigned in an alternating
- 25   manner to the first grate carriage (5) and the second grate carriage (35).
- 30   11.   The grate element (1) as claimed in one of claims 1 to 9, characterized in that the moveable grate blocks arranged in a line in the transporting direction are assigned to the same grate carriage.
- 35   12.   The grate element (1) as claimed in one of claims 1 to 9, characterized in that the grate blocks are assigned mechanically, as required, to the respective grate carriage.

13. The grate element (1) as claimed in claim 12, characterized in that a group of grate blocks is formed by one to five grate blocks.

5 14. The grate element (1) as claimed in one of the preceding claims, characterized in that a fixed row of grate blocks is followed in each case by a moveable row of grate blocks.

10 15. The grate element (1) as claimed in one of claims 1 to 13, characterized in that a plurality of moveable rows of grate blocks follow directly one after the other.

15 16. A grate carriage (5, 35) for a grate element (1) as claimed in one of claims 1 to 11, characterized in that it has crossmembers (11, 39) which are intended for bearing a plurality of block-holding-tube portions (53, 61) for a moveable row of grate blocks, the  
20 block-holding-tube portions (53, 61) of the moveable grate blocks extending only over part of the grate-carriage width.

17. A grate, characterized in that at least one grate  
25 element is a grate element as claimed in one of claims 1 to 14.

18. A grate, characterized in that all the grate  
elements are a grate element as claimed in one of  
30 claims 1 to 15.